



Defense Logistics Management Standards Office (DLMSO)

**Supporting the Warfighter Today and
the
Future Logistics Enterprise of
Tomorrow**

DLMS Migration Brief

**UID & DLMS Migration Workshop March
9-10, 2004**



Business Rules and Standards

Purpose/Mission - Business Process Interoperability:

- **Facilitate enterprise integration and continuous process improvements to logistics management and operations by:**
 - **Developing business rules and implementation of DoD policy**
 - **Developing and managing the DoD logistics information exchange infrastructure**
 - **Publishing detailed procedures that identify who does what, when, and how along the DoD supply**



Business Rules and Standards

- **Business Process:** An assemblage of business rules that collectively form a process -- *Physical*

Inventory Management

- **Business rule:** States what must or must not be done

If an NSN had activity today, report ending balance to ICP

- **Business Object:** A collection of data in a specified format

that launches a business process or reports process results

An order, inventory adjustment, request for payment, etc.



Business Rules and Standards

DLMSO has the responsibility for managing the development and approval process for the logistics of:

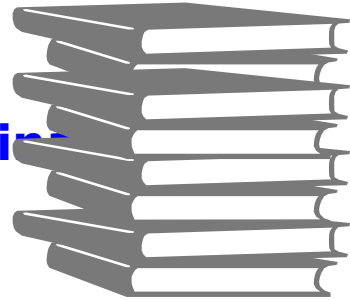
- **business process rules,**
- **business objects/ information exchanges, and**
(within the scope of DODD 8190.1 & DOD 4000.25 series of manuals)
- **metadata** (within the Logistics Community of Interest (COI)).



Business Rules and Standards

Key DoD oversight policy:

- Wynne 22 Dec. 2003, Memo, Migrate to DLMS, Eliminate MILS
 - DoDD 8190.1, DoD Logistics Use of EDI Standards:
 - Assigns DLMSO as DoD Executive Agent for logistics data interchange
 - Establishes ANSI ASC X12 as DoD standard for logistics system interchanges:
 - All new systems
 - Major modifications to existing systems
 - DoDD 4140.1 Materiel Management Policy
 - Authorizes publication of DoD business rules and standards
 - DoD 4140.1-R Materiel Management Regulation
 - “Loaded” with DLMSO policy, procedure, and guidance
- Business rules and standard operational development and implementation are well grounded in DoD policy
- Prescribes logistics management policy,





Business Rules and Standards

What are the DLSS/MILS Transactions?

- **DoD unique EDI standard developed 40 years ago**
- **Fixed length (80 positions) transactions (over 500 types)**
- **Each transaction contains fixed length data fields**
- **Technically obsolete**
- **Serious constraint to business**



Business Rules and Standards

What are the DLMS Transactions?

- **Commercial EDI standard based transactions**
 - **ANSI ASC X12 implementation conventions**
 - **W3C compliant XML schemas**
- **57 X12 ICs and XML schemas support all MILS functionality**
- **Variable length transactions and data fields**



Standards

Receive, Validate, Edit, Route, &

DAASC delivers the ability to receive and transmit logistics data across various networks, supporting numerous protocols and formats. This communications interoperability minimizes the number of interfaces that the DoD Components must maintain for the exchange of logistics data. DAASC maintains a history of all transactions processed/routed to support supply chain analysis.

Customers

DoD

- Departments of:
 - Army
 - Navy
 - Air Force
 - Marine Corps
- USTRANSCOM
- Defense Agencies
- Intelligence
- DoD Dependent Schools
- NATO
- FMS Countries

97% of workload

Transaction Volume (CY 2003): 4,185,551,967

CY 2002 - 3,360,356,729 DLSS/DLMS
CY 2001 - 3,145,906,094 DLSS/DLMS

193,235 Activities
WORLDWIDE

Suppliers

Defense Logistics Agency

Military Services

General Services Admin.

Commercial Suppliers

DAAS

Mapping & Translation Services

Routing and Transmission Services

DAAS Transactions:

- DLSS (MILS)
- DLMS (X12)
- DLMS (XML)
- DLMS (XML)

- OFFICIAL REPOSITORY & DISTRIBUTION POINT FOR DoD DIRECTORIES
- SUPPORT SERVICE / AGENCY CONTINGENCY OPERATIONS

Civilian

- Departments of:
 - Commerce
 - Justice
 - Transportation

3% of workload

- NASA
- GSA
- FAA
- VA
- FEMA
- USPS
- GAO
- CG

- XML - subset of SGML (Standardized General Markup Language) and HTML

Business Rules and

- Provides flexible information exchange form designed for WEB based applications
- DLMSO XML schemas that can be used now
- DLMSO has developed W3C compliant XML schemas, using EDIFICS SpecBuilder tool.

The XML schemas equate to the DLMS ANSI ASC X12 ICs/supplements.

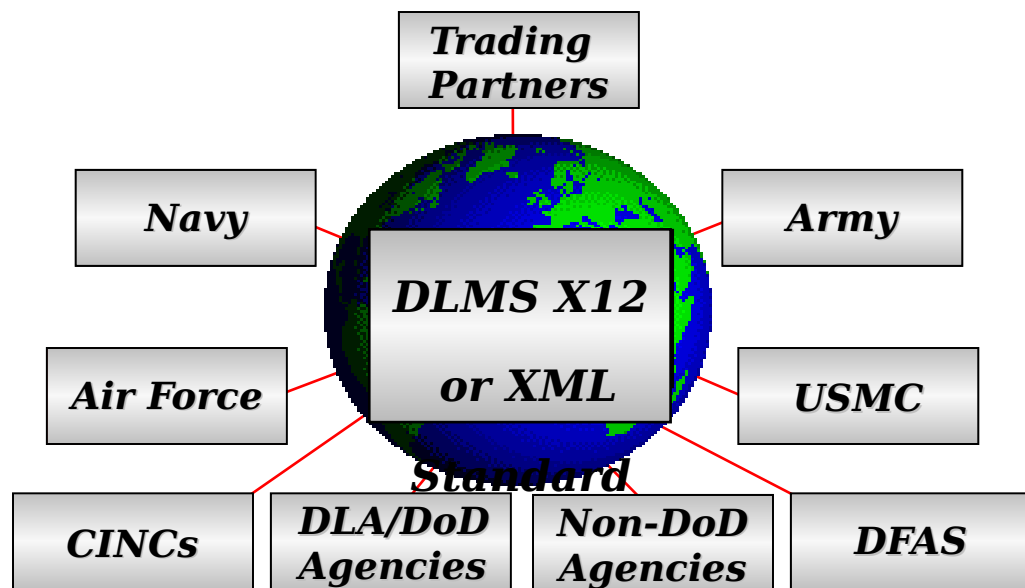
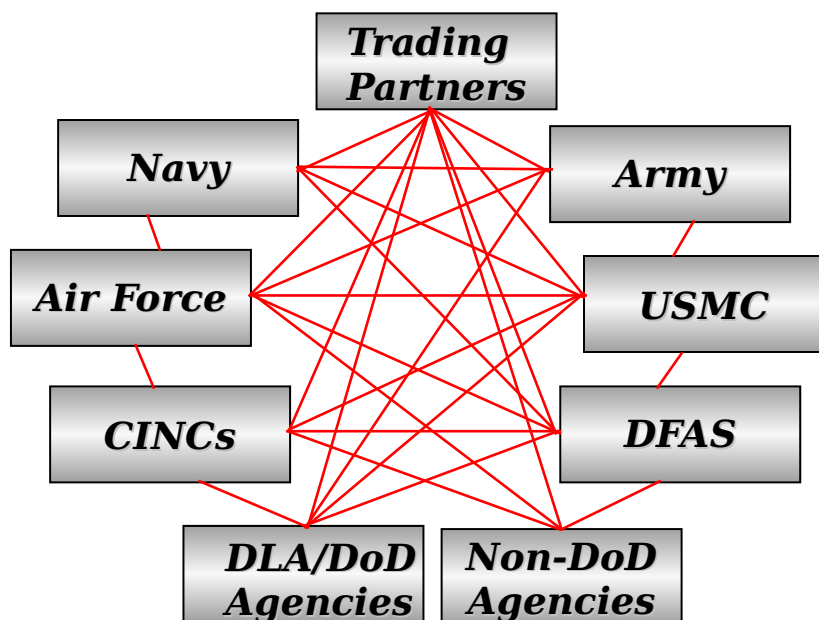
- DLMSO participating/supporting various industry groups (ASC X12 XML Workgroup, Federal CIO XML Workgroup, and DISA Namespace Manager & Repositories)
- DAASC has capability to translate - MILS/DLSS><DLMS X12><DLMS XML

- Using the DLMS XML capitalizes on our many years of



Business Rules and

Why a “standard” approach?



- Ensures interoperability among trading partners for information exchanges
- Can satisfy all current and future data exchange requirements



Business Rules and

XML Schema

Address http://www.dla.mil/j-6/dlms/eLibrary/TransFormats/Schemas/004010F511R3RA03_Apr0403.pdf Go

120%

C:\XML Schemas\511R Requisition\004010F511R3RA03_Apr0403.xsd 07/31/03 11:26:10

xml spy

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Automatically generated by EDIFecs SpecBuilder (http://www.edifecs.com) -->
<xsd:schema targetNamespace="http://www.edifecs.com/xdata/200" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.edifecs.com/xdata/200" elementFormDefault="qualified" version="1.0">
  <xsd:element name="T_Requisition" type="T_511"/>
  <xsd:complexType name="T_511">
    <xsd:annotation>
      <xsd:documentation>This Draft Standard for Trial Use contains the format and establishes the data contents of the Requisition Transaction Set
        (511) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to requisition needed material and
        equipment from a supply distribution system for immediate consumption or stockage against projected requirements. The originator can also use this
        transaction set to inquire about the status of, amend, or terminate the original requisition. This transaction set may be used to convey a description and quantity
        of the required material, delivery and billing information, and other logistics information necessary to evaluate and meet the material needs of the originator. This
        transaction set is not used to establish a contractual relationship between trading partners, and may precede the use of a purchase order.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="Internal-Properties" type="Internal-Properties" minOccurs="0"/>
      <xsd:element name="S_Transaction_Set_Header" type="S_ST"/>
      <xsd:element name="S_Beginning_Segment_for_Material_Management" type="S_BR"/>
      <xsd:element name="L_Name" type="L_N1" maxOccurs="20"/>
      <xsd:element name="L_Assigned_Number" type="L_LX" maxOccurs="unbounded"/>
      <xsd:element name="S_Transaction_Set_Trailer" type="S_SE"/>
    </xsd:sequence>
    <xsd:attribute name="Type" type="xsd:string" default="Transaction"/>
    <xsd:attribute name="ID" type="xsd:string" default="511"/>
    <xsd:attribute name="Name" type="xsd:string" default="Requisition"/>
  </xsd:complexType>
</xsd:schema>
```

1 of 31 8.5 x 11 in



Business Rules and

DISA Repository

<http://diides.ncr.disa.mil/xmlreg/user/index.cfm>

Address http://diides.ncr.disa.mil/xmlreg/user/search_action.cfm?phrase=DLMSO&fields=All&namespace_id=341&ir_type_cd=All&status_c

XML Registry Home

What's New

Briefings & Documentation

Tools

Search

Registration

Links

Subscriptions

Changed IRs

Briefcase

DoD METADATA REGISTRY AND CLEARINGHOUSE

DoD XML Registry

Session validated for Nat Obey [Logout](#)

Search Results

(69 Records)

[view briefcase](#)

Submission Packages

[DLMSO_100_Series_XM...](#) (v.1.0,Developmental,20-Feb-03) [\[MGTINTCG Namespace - Management Intercha...\]](#)

XML Schema for 4030 140B Unique Item Tracking Reporting

[DLMSO_800_Series_XM...](#) (v.1.0,Developmental,11-Feb-03) [\[MGTINTCG Namespace - Management Intercha...\]](#)

XML Schema for 4030 842AW Nonconformance Report DoD WebSDR

[DLMSO_810L_XML_Sche...](#) (v.1.0,Developmental,15-Apr-02) [\[MGTINTCG Namespace - Management Intercha...\]](#)

XML Schema for 4010 810L Rev 1 Invoice (Logistics Bill)

[DLMSO_XML_Schema_18...](#) (v.2.0,Developmental,31-Jul-02) [\[MGTINTCG Namespace - Management Intercha...\]](#)

XML Schema for 4010 180M Material Returns Reporting




Business Rules and

DLIS Repository <http://www.dlis.dla.mil/XRL>

Address <http://www.dlis.dla.mil/XRL/>



Defense Logistics Information Service
"A Defense Logistics Agency Activity"

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XRL

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[Program Management Office](#)

The XML Resource Library (XRL) provides a mechanism for managing metadata used for e-commerce and data exchanges. It establishes a recognized authoritative site for the submission and access of information models containing XML artifacts such as schemas, DTDs, mapping documents, etc. Furthermore, it provides services to support data integration and application interoperability

The XRL is an operational or active repository to facilitate and enable data interoperability (data exchange). It has been specifically designed using the ebXML Technical Architecture Specification. Within the repository portion of the ebXML architecture specification, is the requirement to make vocabularies, business templates and Business Processes used to transact business accessible by all partners. The XRL serves this purpose. This means that information for data exchanges can be kept, maintained and reused as data exchanges grow. This data is otherwise lost or invisible. Another key feature of an operational repository is to validate a data exchange. This is a standard process that an application can automatically invoke through the XRL.

Using XRL assists in improving data sharing and exchange. The XRL also helps reduce data latency and the use of derivative data, improving the reliability of information retrieved. As a result, commanders and operational planners will have access to information that allows them to make better management decisions.

 XRL Logo



Business Rules and

DLMSO XML Web Page

<http://www.dla.mil/j-6/dlms/eLibrary/TransFormats/>

Address http://www.dla.mil/j-6/dlms/eLibrary/TransFormats/xml_140_568.asp

- Process Changes
- Transaction Formats
 - General
 - X12
 - XML
 - MILS
- Process Flows
- Archives

Extensible Markup Language (XML)

The following table lists XML schemas for the DLMS supplements and their equivalent ANSI ASC X12 formats.
The remaining schemas are available at: [810-858](#); [861-997](#)

- DoD XML Registry
- DLIS Repository
- ASC X12 140-568
- ASC X12 810-858
- ASC X12 861-997
- DLSS to DLMS Transaction Cross-Reference
- Logistics Qualifier Code List

[Send link by e-mail](#)
 [Print this page](#)

No.	ANSI X12 Version	Federal IC	XML Schema	DLMS Supplement (DS)*	Title
140A	4010	25 Sep 98	20 Dec 01	20 Dec 01	Small Arms Reporting
140B	4030				Unique Item Tracking Report
180M	4010	31 Oct 02	31 Jul 02	31 Jul 02	Material Returns Reporting
511M	4010	18 Apr 03	4 Apr 03	4 Apr 03	Modification
511R	4010	18 Apr 03	4 Apr 03	4 Apr 03	Requisition
517G	4010	10 Oct 01	12 May 03	2 May 01	Government Furnished Material (GFM) Validation



Business Rules and

Where To Find The DLMS Transactions

DLMSO Web Site PDF

DLMS X12 <http://www.dla.mil/j-6/dlms/eLibrary/TransFormats/x12>

DLMS XML Schemas

<http://www.dla.mil/j-6/dlms/eLibrary/TransFormats/xml.asp>

DLMSO Web Site Links To:

DoD XML Repository <http://xml.dod.mil/xmlreg/user/index.cfm>

DLIS XML Resource Library (XRL) <http://www.dlis.dla.mil>



Business Rules and

help is available to assist in migration

- **DLMSO & DAASC**
 - **Functional and technical consultation**
 - **Training**
 - **DAASC mappings between MILS and DLMS data**
 - **Test Transactions**
 - **Coordinate system-to-system testing**

- **DLA & USAMMA experience &**